

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-20 and 43-46; and amend Claims 21, 22, 33, 34 and 37-40 as follows.

LISTING OF CLAIMS

1.-20. (cancelled)

21. (currently amended) A heat transfer member made of a thin plate member, dipped in fluid and thereby supplying or receiving the heat between [[it]] the heat transfer member and the field,

wherein [[it]] the heat transfer member comprises angle portions cut and raised up from the thin plate member, and plane portions having a plurality of heat exchanging portions comprising slit pieces continuously connected to root portions of the angle portions, and

wherein an angle height H of the angle portions is not lower than 0.02 mm and is not higher than 0.4 mm, and a pitch dimension P between the heat exchanging portions adjacent each other in a fluid flowing direction is not lower than 0.02 mm and is not higher than 0.75 mm.

22. (currently amended) A heat transfer member made of a thin plate member, dipped in fluid and thereby supplying or receiving the heat between [[it]] the heat transfer member and the fluid,

wherein [[it]] the heat transfer member comprises angle portions cut and raised up from the thin plate member, and plane portions having a plurality of heat

exchanging portions comprising slip pieces continuously connected to root portions of the angle portions, and

wherein an angle height H of the angle portions is not lower than 0.06 mm and is not higher than 0.36 mm, and a pitch dimension P between the heat exchanging portions adjacent each other in a fluid flowing direction is not lower than 0.08 mm and is not higher than 0.68 mm.

23. (original) A heat transfer member, as set forth in claim 21, wherein a raised angle θ of the angle portions is not smaller than 40 degrees and is not larger than 140 degrees.

24. (original) A heat transfer member, as set forth in claim 22, wherein a raised angle θ of the angle portions is not smaller than 40 degrees and is not larger than 140 degrees.

25. (original) A heat transfer member, as set forth in claim 21, wherein the angle portions are cut and raised up in a curved shape from the thin plate member.

26. (original) A heat transfer member, as set forth in claim 22, wherein the angle portions are cut and raised up in a curved shape from the thin plate member.

27. (original) A heat transfer member, as set forth in claim 21, wherein a ratio H/L between the angle height H and dimension L of portions, parallel to the fluid

flow direction, of the heat exchange portions is not less than 0.5 and is not more than 2.2.

28. (original) A heat transfer member, as set forth in claim 22, wherein a ratio H/L between the angle height H and dimension L of portions, parallel to the fluid flow direction, of the heat exchange portions is not less than 0.5 and is not more than 2.2.

29. (original) A heat transfer member, as set forth in claim 21, wherein a relationship between a sectional shape of the heat exchanging portions on an upstream side of a fluid flow and a sectional shape of the heat exchanging portions on a downstream side of the fluid flow is arranged substantially symmetrically with each other.

30. (original) A heat transfer member, as set forth in claim 22, wherein a relationship between a sectional shape of the heat exchanging portions on an upstream side of a fluid flow and a sectional shape of the heat exchanging portions on a downstream side of the fluid flow is arranged substantially symmetrically with each other.

31. (original) A heat transfer member, as set forth in claim 21, wherein the heat exchange portions are formed on the plane portions so as to align in a row in the fluid flowing direction.

32. (original) A heat transfer member, as set forth in claim 22, wherein the heat exchange portions are formed on the plane portions so as to align in a row in the fluid flowing directions.

33. (currently amended) A heat transfer member, as set forth in claim 31, wherein a number of the heat exchanging portions is larger than a value $B/0.75$ when a value B is a length of a portion, parallel to the fluid flowing direction, of the plane portions and is expressed in a unit of centimeter.

34. (currently amended) A heat transfer member, as set forth in claim 32, wherein a number of the heat exchanging portions is larger than a value $B/0.75$ when a value B is a length of a portion, parallel to the fluid flowing direction, of the plane portions and is expressed in a unit of centimeter.

35. (original) A heat transfer member, as set forth in claim 21, wherein at least a flat portion without the angle portion is provided between the heat exchange portions adjacent each other in the fluid flowing direction.

36. (original) A heat transfer member, as set forth in claim 22, wherein at least a flat portion without the angle portion is provided between the heat exchange portions adjacent each other in the fluid flowing direction.

37. (currently amended) A heat transfer member, as set forth in claim 35, wherein a dimension B of a portion, parallel to a fluid flowing direction, of the plane portions is not smaller than 5 mm and is not larger than 25 mm and

a dimension Cn of a portion, parallel to the fluid flowing direction, of the flat portions is predetermined and is smaller than 1 mm.

38. (currently amended) A heat transfer member, as set forth in claim 36, wherein a dimension B of a portion, parallel to a fluid flowing direction, of the plane portions is not smaller than 5 mm and is not larger than 25 mm and

a dimension Cn of a portion, parallel to the fluid flowing direction, of the flat portions is predetermined and is smaller than 1 mm.

39. (currently amended) A heat transfer member, as set forth in claim 35, wherein a dimension B of a portion, parallel to a fluid flowing direction, of the plane portions is larger than 25 mm and is not larger than 50 mm and

a dimension Cn of a portion, parallel to the fluid flowing direction, of the flat portions is not smaller than 1 mm and is not larger than 20 mm.

40. (currently amended) A heat transfer member, as set forth in claim 36, wherein a dimension B of a portion, parallel to a fluid flowing direction, of the plane portions is larger than 25 mm and is not larger than 50 mm and

a dimension Cn of a portion, parallel to the fluid flowing direction, of the flat portions is not smaller than 1 mm and is not larger than 20 mm.

41. (original) A heat transfer member, as set forth in claim 21, wherein when a ratio D/C between a length C of a thin plate member orthogonal to the fluid flow direction and a length D of the angle portions orthogonal to the fluid flow direction is assumed to be a slit length ratio E , the slit length ratio E is set within a range not less than 0.775 and not larger than 0.995.

42. (original) A heat transfer member, as set forth in claim 22, wherein when a ratio D/C between a length C of a thin plate member orthogonal to the fluid flow direction and a length D of the angle portions orthogonal to the fluid flow direction is assumed to be a slit length ratio E , the slit length ratio E is set within a range not less than 0.775 and not larger than 0.995.

43.-46. (cancelled)